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1. 033: A Mobile Phone Application (“App”) for Advancing Teen Pregnancy Prevention

Release Date: 08-15-2012Open Date: 08-15-2012Due Date: 12-03-2012Close Date: 12-03-2012

Background: The teen birth rate in the US remains high, particularly among racial/ethnic minorities compared with many other industrialized nations. The adverse consequences of teen pregnancy are substantial at individual, family, and community levels. A range of innovative tools and interventions is needed to foster an environment that enables teens to experience better reproductive health. In 20 ...

SBIR Department of Health and Human Services

2. A12-112: A New Generation of Actuators for Robotic Systems

Release Date: 07-26-2012Open Date: 08-27-2012Due Date: 09-26-2012Close Date: 09-26-2012

OBJECTIVE: Design and prototype adaptive actuators for medical robotic systems to improve the robotic capacity needed for future medical robotic applications, such as heavy patient lifting, combat casualty evacuation, dexterous manipulation, and combat casualty care. DESCRIPTION: Background. Today"s robot systems have been evolving from industrial applications into human services. Robots are tr ...

SBIR Army

3. X15.01: A New Technique for Automated Analyses of Raw Operational Videos

Release Date: 07-18-2011Open Date: 07-18-2011Due Date: 09-08-2011Close Date: 09-08-2011

Develop a software tool that automatically processes raw motion video footage (from a single conventional 2D camera) of a crew (spacecraft or ground) during a space mission. Such a tool is needed to address vehicle/habitat design issues, as well as crew-to-crew interaction issues, on the ground. For example, unprocessed space mission operational videos down linked from a spacecraft that involve humans as the subjects of interest need to be analyzed on the ground for their motion and behavioral health information. Requirements:

SBIR National Aeronautics and Space Administration

4. A14-042: A Novel Method for Creating Microshear to Aerosolize Packed Powders

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: To develop a concept which produces microshear to efficiently separate and disseminate fine powders that are densely packed within a container. Concepts should address material agglomeration issues that arise with optimized packing densities. A systematic study of the forces necessary to overcome binding effects of the materials could be developed along with mathematical modeling to s ...

SBIR Department of DefenseArmy

5. DHP13-013: A Point-of-Care Device for Diagnosis of Platelet Injury in Trauma Patients

Release Date: 04-24-2013Open Date: 05-24-2013Due Date: 06-26-2013Close Date: 06-26-2013

OBJECTIVE: Develop a portable, point-of-care device that directly measures the platelet contribution to clot characteristics. DESCRIPTION: Hemorrhage, associated with trauma is one of the leading causes of preventable death on the modern battlefield. Posttraumatic hemostasis is often impaired by the rapid onset of coagulopathy which has been observed in up to 36% of trauma patients. Trauma-as ...

SBIR Defense Health Program

6. A11a-T015: A Priori Error-Controlled Simulations of Electromagnetic Phenomena for HPC

Release Date: 01-27-2011Open Date: 02-28-2011Due Date: 03-30-2011Close Date: 03-30-2011

OBJECTIVE: The objectives of this STTR are to investigate numerical methods for predictably-accurate treatment of boundary conditions in electromagnetic and other wave-dominated phenomena, and to develop algorithms and computer software that can be implemented for military and commercial simulation applications. DESCRIPTION: High fidelity modeling of electromagnetic phenomena has become incre ...

STTR Army

7. A12-109: A Real-Time, Non-Invasive Monitoring System to Guide Accurate Fluid Resuscitation of Combat Casualties During Pre-Hospital and Transport Medical Care

Release Date: 07-26-2012Open Date: 08-27-2012Due Date: 09-26-2012Close Date: 09-26-2012

OBJECTIVE: Develop an advanced decision-support medical monitor driven by algorithms that provide real-time processing of physiologic signals for the purpose of guiding accurate fluid resuscitation in humans who are hypovolemic due to hemorrhaging. The algorithm will run in real time on a resource constrained portable device. The final device should provide a wireless connection between the patien ...

SBIR Army

8. OSD13-C02: A Semantic Technology for Materials Design and Development

Release Date: 07-26-2013Open Date: 08-26-2013Due Date: 09-25-2013Close Date: 09-25-2013

OBJECTIVE: Develop and demonstrate the foundational elements required to create a semantic technology for materials design and development. DESCRIPTION: Several foundational elements required to achieve Sir Tim Berners-Lee"s vision for a semantic web are in place and available to the materials community. The semantic web, sometimes

referred to as the web-of-data, focuses on ontologies as well ...

SBIR Department of DefenseOffice of the Secretary of Defense

9. A13-083: A Software Tool to Assess Impact of Load Carriage and Body-Wearable Robotic Devices on Musculo-Skeletal Health and Performance

Release Date: 04-24-2013Open Date: 05-24-2013Due Date: 06-26-2013Close Date: 06-26-2013

OBJECTIVE: Develop a software simulation tool that models the external force/torque inputs and risk of injury to the musculoskeletal system of soldiers carrying loads with and without assistance from body-wearable robotic devices. DESCRIPTION: Soldiers, Marines, Sailors, and Airmen on foot and engaged in field training or combat operations often carry heavy loads (35-65 kg or more) consisting ...

SBIR Army

10. DHP13-008: A software tool to assess injury risk and maximum allowable exertions for repetitive, forceful one hand and two hand shoulder push/pull motions

Release Date: 04-24-2013Open Date: 05-24-2013Due Date: 06-26-2013Close Date: 06-26-2013

OBJECTIVE: Develop injury criteria, an assessment methodology, a risk analysis software tool and design criteria for repetitive, forceful one and two hand shoulder push/pull motions performed for variable (brief to long) durations while operating military equipment. The injury criteria, assessment methodology and analysis software will be used to evaluate injury risk from man-machine interaction ...

SBIR Defense Health Program

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